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**COPY OF ALL CLAIMS**

1-16. (canceled)

17. (new) A dicarboxylic acid diester mixture selected from the group consisting of
- a cyclohexane-1,2-dicarboxylic acid di(isopentyl) ester mixture obtained by the process of hydrogenation of the di(isopentyl)phthalate mixture having the Chemical Abstracts registry number (in the following: CAS No.) 84777-06-0;
  - a cyclohexane-1,2-dicarboxylic acid di(isoheptyl) ester mixture obtained by hydrogenating the di(isoheptyl)phthalate mixture having the CAS No. 71888-89-6;
  - a cyclohexane-1,2-dicarboxylic acid di(isononyl) ester mixture obtained by hydrogenating the di(isononyl)phthalate mixture having the CAS No. 68515-48-0;
  - a cyclohexane-1,2-dicarboxylic acid di(isononyl) ester mixture obtained by hydrogenating the di(isononyl)phthalate mixture having the CAS No. 28553-12-0, based on n-butene;
  - a cyclohexane-1,2-dicarboxylic acid di(isononyl) ester mixture obtained by hydrogenating the di(isononyl)phthalate mixture having the CAS No. 28553-12-0, based on isobutene;
  - a mixture of 1,2-di-C<sub>6</sub>-esters of cyclohexanedicarboxylic acid obtained by hydrogenating the di(hexyl)phthalate mixture having the CAS No. 68515-

46-8;

a cyclohexane-1,2-dicarboxylic acid di(isodecyl) ester mixture obtained by the process of hydrogenating the di(isodecyl)phthalate mixture having the CAS No. 68515-49-1;

a mixture of 1,2-di-C<sub>7-11</sub>- esters of cyclohexanedicarboxylic acid, obtained by hydrogenating the corresponding phthalic acid ester mixture having the CAS No. 68515-42-4;

a mixture of 1,2-di-C<sub>7-11</sub>-esters of cyclohexanedicarboxylic acid, obtained by hydrogenating a di-C<sub>7-11</sub>phthalate mixture selected from the group consisting of di-C<sub>7-11</sub>phthalate mixtures having the following CAS Nos.: 111381-89-6, 111381-90-9, 111381-91-0, 68515-44-6, 68515-45-7, and 3648-20-7;

a mixture of 1,2-di-C<sub>9-11</sub>- esters of cyclohexanedicarboxylic acid, obtained by hydrogenating the di-C<sub>9-11</sub>-phthalate mixture having the CAS No. 98515-43-5;

a 1,2-di(isodecyl)cyclohexanedicarboxylic acid ester mixture, obtained by hydrogenating a di(isodecyl)phthalate mixture consisting essentially of di-(2-propylheptyl)phthalate; and

a 1,2-di-C<sub>7-9</sub>-cyclohexanedicarboxylic acid ester mixture obtained by hydrogenating the corresponding phthalic acid ester mixture, which comprises phthalic acid esters having branched and linear C<sub>7-9</sub>-alkylester

groups.

18. (new) The 1,2-di-C<sub>7,9</sub>-cyclohexanedicarboxylic acid ester mixture of claim 17 which is obtained by hydrogenating a phthalic acid ester mixture selected from the group consisting of  
the di-C<sub>7,9</sub>-alkylphthalate mixture having the CAS No. 111 381-89-6;  
the di-C<sub>7</sub>-alkylphthalate mixture having the CAS No. 68515-44-6; and  
the di-C<sub>9</sub>-alkylphthalate mixture having the CAS No. 68515-45-7.
19. (new) A method of increasing the plasticity of a plastic product which comprises admixing to the plastic a plasticizing amount of at least one of the dicarboxylic acid diester mixtures defined in claim 17.
20. (new) A plastic product comprising a plasticizing amount of at least one of the dicarboxylic acid diester mixtures defined in claim 17.
21. (new) The method of claim 19, wherein said plastic product is PVB.